

**PHOTOGRAPHS OF FABRICS**  
**AND METHODS FOR MAKING THEM**

**Cross Reference to Related Applications**

5           The present application claims priority to United States Provisional  
Patent Application Serial No. 60/253,175, entitled "Photographs and Methods  
for Making Them", filed on November 27, 2000 in the name of the inventors  
David Sonnenberg and Henricus Aldegonda Hendrikx, the contents of which  
are hereby incorporated by reference in their entirety.

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**Field of the Invention**

          This invention relates to photographs of fabrics which more accurately  
convey, to their viewers, particularly to fabric experts, information about each  
fabric's texture, pattern and thickness, as well as its drape and translucency.

15       The invention particularly relates to photographs which can be viewed by  
potential fabric purchasers via an internet web site. The invention also relates  
to a standardized method of reproducibly making such photographs of  
different fabrics, so that the texture, pattern and thickness, as well as the  
drape and translucency, of each fabric can be reliably understood and  
20       compared.

**Background of the Invention**

          Buyers of fabrics generally like to select fabrics by choosing from  
among a large number of fabric swatches, i.e., samples. A potential buyer will  
25       generally look at each swatch of a fabric and examine its texture, pattern and  
thickness. The potential buyer will also feel the texture of the fabric swatch,  
see how the fabric drapes, and notice its translucency.

          When a potential buyer is to select a fabric from a catalogue of fabrics  
or from electronic images of fabrics, e.g. on television or via the internet, the  
30       potential buyer can no longer touch the fabric, drape it or hold it to the light to  
determine its translucency.


          Systems for photographing and digitizing photographs and then storing  
and displaying them, using computers, are known, e.g., from EP 0 468126 (for  
ceramics) and US 5 966 454 and US 6 005 969 (for fabrics). Using generally

conventional computer software and hardware with high resolution graphics processing capabilities, a user may view and even modify colors of the photographed designs on the user's computer screen.

5 However, photographing, digitizing and storing a photographic image of a fabric, so that a buyer is then likely to decide to buy the fabric or at least to ask for a swatch of the fabric before deciding to buy it, is more than just a technical problem. The fabric's photographic image should convey a maximum amount of information about the texture, color, thickness, pattern and drapability of the fabric.

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### Summary of the Invention

15  The problem of conveying the maximum amount of information with a minimum number of pictures has been solved by the standardized method of this invention for reproducibly making photographs of different fabrics, so that one or more of each fabric's characteristics of texture, pattern, thickness, drape and translucency, can be reliably understood and compared. The method comprises the steps of: folding each fabric in the same way; placing the folded fabric on a background surface to provide it with a standardized draped shape; and then photographing each draped and folded fabric in a first same way.

20 Advantageously, each fabric has one to three folds, preferably two folds. Also advantageously, each fabric is photographed, so that the resulting photograph has a first total surface area, a second surface area of the photograph shows the fabric and a third surface area of the photograph shows the background surface; the second surface area being greater than the third surface area. Further advantageously, each fabric has two folds; and the predetermined standardized drape of the fabric comprises: a bottom ply that is on the background surface and has a first side edge; an intermediate ply having a second side edge; a first fold line between the bottom and intermediate plies; and a top ply having a third side edge; and a second fold line between the intermediate and top plies; wherein the first, second and third side edges are on the same side of the fabric; the first and third side edges are spaced apart and extend generally parallel in a first direction; the second side edge is located between the first and third side edges; and the first and

second fold lines are spaced apart and extend generally parallel in a second direction, that is preferably substantially perpendicular to the first direction. It is particularly advantageous that the first, second and third side edges are serrated.

5 <sup>q2</sup> Advantageously, each fabric is also photographed in second same way as straight with a full-repeat of a pattern, advantageously with a serrated edge and atop a gray background.

Advantageously, each fabric is further shown in a computer-generated photo-realistic image in a third same way, in use, particularly as a window  
10 covering and/or a furniture covering.

<sup>q3</sup> Also in accordance with this invention, a photograph that has been made by the above-described method. The photograph can be shown as an image on an internet web site.

<sup>q4</sup> Further in accordance with this invention, a method of assessing the texture, pattern, thickness, drape and/or translucency of a fabric is provided, comprising the step of: viewing the just-described photograph.  
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#### **Brief Description of the Figures**

Further aspects of the invention will be apparent from the detailed description below of a particular embodiment and the drawings thereof, in  
20 which:

- Figure 1 is a schematic representation of a standard method of draping a sample of a fabric, to be photographed according to the invention;
- 25 - Figures 2A and 2B are each a picture of a different, draped fabric according to the invention, showing its different texture, pattern and thickness, as well as its drape and translucency;
- Figure 3 is a flow chart, showing the steps of a method of photographing a sample of a draped fabric (e.g., as in Figures  
30 2A and 2B) according to the invention;
- Figures 4A and 4B are each a picture, for identification purposes, of a sample of a flat or straight fabric (which is the same fabric shown in Figure 2B); the fabric in Figure 4B comprises a full repeat on gray with serrated edges;

- Figure 5 is a flow chart, showing the steps of a method of photographing a sample of a flat fabric (e.g., as in Figures 4A and 4B) according to the invention;
- Figure 6 is a computer-generated rendering of a fabric as a window covering;
- Figure 7 is a computer-generated rendering of a fabric as a covering for a couch;
- Figure 8 is a computer-generated rendering of a fabric as a covering for a chair;
- Figure 9A is a computer-generated view for a window covering fabric, with several separate views showing the draped fabric (of Figure 2A), the same fabric as a flat fabric (as in Figures 4A and 4B) and the same fabric in a computer-generated rendering of a window covering (as in Figure 6);
- Figure 9B is a computer-generated view for a multi-purpose (e.g., for furniture and window coverings) fabric, with several separate views showing the draped fabric (of Figure 2B), the same fabric as a flat fabric (as in Figure 4A), the same fabric in a computer-generated rendering of a window covering (as in Figure 6) and the same fabric in a computer-generated rendering of a couch; and
- Figure 9C is a computer-generated view for a furniture fabric, with several separate views showing a draped fabric (as in Figures 2A and 2B), the same fabric as a flat fabric (as in Figures 4A and 4B), the same fabric in a computer-generated rendering of a chair (of Figure 8) and the same fabric in a computer-generated rendering of a couch.

#### **Detailed Description of the Invention**

- Figure 1 schematically shows a standard method for draping a sample of a fabric 1, that is to be photographed according to the invention as shown in Figures 2A and 2B. The resulting photograph or image of the draped fabric 1 can be shown on an internet web site, so that experienced fabric buyers will be able to see the fabric's texture, pattern and thickness, as well

as its drape and translucency and be able to compare reliably these qualities of the fabric 1 with the same qualities of other different fabrics, draped and photographed in the same way.

5 The standardized draping method of Figure 1 involves folding the fabric sample 1 transverse to its side edge 2 to form:

- a bottom ply or portion 3 having a first side edge 5;
- a first fold line 7;
- an intermediate ply or portion 9 having a second side edge 11;
- a second fold line 13; and
- 10 - a top ply or portion 15 having a third side edge 17.

This folding procedure is carried out so that the resulting fabric sample 1 has a generally sinusoidal (wave-like) shape comprising two gentle curves 19, 21 - with no hard creases. The first or bottom curve 19 is formed in the fabric where the first fold line 7 takes shape, between the first and second side edges 5, 11, and the second or top curve 21 is formed in the fabric where the second fold line 13 takes shape, between the second and third side edges 11, 17. The first curve 19 has a first radius 20 where the first fold line 7 is formed. The second curve 21 has a second radius 22 where the second fold line 13 is formed. Preferably the first radius 20 is smaller than the second radius 22.

This double-folded fabric sample 1 is then positioned on a flat horizontal background surface S having the same color and surface texture for each fabric photographed. Only part of the underlying surface S falls within the actual photograph of the fabric sample 1 as is shown by a virtual picture frame P in Figure 1. As shown in Figure 1, the virtual picture frame P has a top side 23, a bottom side 25 (closest to a camera [not shown] which will take a photo of the folded fabric 1), a left side 27 and a right side 29. The fabric sample 1 is positioned on the surface S with its first and third side edges 5, 17 spaced apart and extending generally parallel to each other. The first and third side edges 5, 17 extend in a first direction which is at an obtuse angle 30, relative to the bottom side 25 of the virtual picture frame S. The second side edge 11 of the fabric is always located between its first and third side edges 5, 17 in the virtual picture frame P and is, therefore, always shown to a viewer in the frame P. The shown surface of the intermediate ply 9 of the fabric 1,

extending in the plane between its second and third side edges 11, 17, is actually the rear surface of the fabric sample 1. The first and second fold lines 7,13 are also spaced apart and extend generally parallel to each other. The first and second fold lines 7,13 extend in a second direction which is substantially perpendicular to the first direction of the first and third side edges 5,17. The second direction is at an acute angle 40 relative to the bottom side 25 of the virtual picture frame S.

Preferably, the obtuse angle 30 of the first direction of the resulting double-folded draped fabric sample 1, relative to the bottom side 25 of the virtual picture frame P, is between about 105° and 120°, especially about 110°. The second direction of the draped fabric sample 1, being substantially perpendicular to the first direction, is therefore preferably at an acute angle between about 15° and 30°, especially about 20°, relative to the bottom side 25 of the virtual picture frame P.

In Figure 1, auxiliary lines A and B are drawn along the first and third side edges 5,17, respectively, in the first direction of the double-folded draped fabric sample 1 and continue in the same parallel direction. Auxiliary lines C and D are drawn along the first and second fold lines 7,13, respectively, of the double-folded fabric sample 1 and continue in the same parallel direction. These auxiliary lines A,B,C,D are drawn to clarify the standardized shape of the fabric sample 1 in the virtual picture frame P containing the fabric's standardized two folds. Auxiliary lines A, B, C, D intersect at points AB, AC, BC and BD, thus creating a virtual fold frame F, within which the two-ply fold is located. The virtual fold frame F is preferably generally rectangular. The virtual fold frame F stands in the virtual picture frame P under an acute angle 50, that is off set from the bottom side 25 of the virtual picture frame. The acute angle 50 is equal to the acute angle 30 of the first direction of the first and third side edges 5,17 and is, therefore, preferably between about 15° and 30°, especially about 20°.

The surface area of the virtual fold frame F is smaller than the surface area of the virtual picture frame P. Preferably, the ratio of the surface area of the virtual fold frame F to the surface area of the virtual picture frame P is between about 15:100 and 30:100, especially about 20:100.

The shown side edges 5, 11,17 of the double-folded draped fabric sample 1 in Figure 1 are inter-connected and form part of the total side edge of the fabric sample. The shown side edges 5, 11,17 are preferably serrated.

In order to create a photograph, like Figures 2A and 2B with the  
5 standardized drape of the fabric sample 1 -- so that a fabric expert can clearly see and appreciate its texture, pattern, thickness, drape and translucency and, perhaps even more importantly, see and appreciate its differences in texture, pattern, thickness, drape and translucency from other fabrics draped and photographed in exactly the same way -- the fabric sample 1 should be  
10 folded and draped exactly as described above.

This can be accomplished, in a relatively easy way, by making a mask exactly like the double-folded draped fabric sample 1 of Figure 1 and projecting this mask onto a computer monitor. Then with the use of a suitable camera, a life-sized image of the double-folded draped fabric sample 1 can  
15 be projected on the monitor. By superimposing the mask of the displayed fabric 1 and by filming another fabric as it is being draped, feed back is provided to the person draping the other fabric. When the fold and drape of the other fabric match the mask lines of the fabric 1 on the monitor, the picture of the other fabric can be taken.

Another method of draping a fabric, like the draped fabric 1 of Figure 1,  
20 is by putting guiding lines on a surface, on which the other fabric rests and then draping the other fabric accordingly. A special tool having the general shape of a "U" can be used to assist in draping. The U-shaped tool should have a first leg and a second leg, with the first leg having a circular cross-  
25 section similar in size to the interior of the first fold line curve 19 and the second leg having a circular cross-section similar in size to the interior of the second fold line curve 21. The legs of the U-shaped tool should be long enough to drape the fabric about it but short enough to remain hidden by the fabric. Instead of a special U-shaped tool, simple circular rods of cardboard or  
30 other material could be used to shape the fold line curves 19, 21.

Yet another way of draping a fabric, like the draped fabric 1 of Figure 1, is by projecting the desired drape-shape on a surface, on which the fabric rests, then putting the fabric on the surface and draping it along the projected

lines. Use of the U-shaped tool or the circular rods, mentioned above, would, of course, be possible as would some combination of the foregoing methods.

Figures 2A and 2B show two different draped fabric samples 1 of the invention, with their different textures, patterns, thicknesses, drape and translucency. To make each picture, its fabric sample 1 is positioned on the surface S and is draped in the previously described two-ply fold. A standard gray card can then be positioned on the surface S, next to the fabric 1. This card shows the standard colors: gray, white and black. A photograph of the draped fabric is then taken, preferably using a conventional digital camera with software for color management (e.g. LeafCapture 5.2 of Scitex). The photograph could also be taken by a normal camera and subsequently digitized by a scanner. The resulting digital image is fed to a computer, preferably with a big screen (e.g., a cyberscreen 21 inch). After making a black and white preview to check that the image is sharp, a shot is taken in conventional HDR-format. This is actually a three-fold shot for the separate color channels, red, green and blue. The colors are calibrated by calibrating the gray column of the gray card.

The camera lights, used for lighting the fabric sample 1 and the position and the angle of the camera relative to the surface S on which the fabric rests, should also be kept constant. The camera angle is preferably 45° downward and straight at the fabric sample, the distance to the focus-point is preferably 77cm, the diaphragm is set at "8", and the height above the surface S is 45 cm. Generally, two lights are used, a main light and a auxiliary light, both with a maximum capacity of 3200 joules. Lighting of each fabric sample 1 should be as constant as possible and be checked with a standard light measuring device on several positions on each fabric ( since some fabrics, like velours, absorb a lot of light). Lighting problems can also be corrected in a conventional manner, such as by positioning white and black boards on standards close to the fabric or positioning a third light above the fabric sample if the fabric absorbs a lot of light and measuring the lighting of the fabric again. Each light is at a different position relative to the surface S where the fabric rests. The main light is positioned at a distance of 140 cm from the fabric, at a leftward angle of 30° relative to the fabric, at a downward angle of 40°, and at a height of 97 cm above the surface S. The auxiliary light



is positioned at a distance of 80 cm from the fabric, at a rightward angle of 30° relative to the fabric, at a height of 106 cm above the surface S and angled downwardly at an angle of 40°.

Once the photograph is taken, it can be transferred to paper in a catalogue of fabrics or, more conveniently, it can be stored in a computer and digitized for use in a computer database or in an on-line internet web site. The photo can then be used for viewing the general texture and drapability of the fabric and also information as to its color, translucency and thickness. Relevant identifying data, such as the fabric name and its manufacturer's and/or vendor's numbers, can be printed on the photo or can be virtually tagged to the photo when stored in a computer. When used by a computer, the photo also can be digitally altered to better fit different display modes. In this regard, its size can be changed, for example to a thumbnail photo size for display of search results to a bigger size when a full-view is requested. Another size can also be used when the photo is to be displayed as one view in a multi-view format as in Figures 9A, 9B and 9C.

Figure 3 schematically shows a general flow chart of a process which can be used for making a photo of a draped fabric sample 1 as in Figures 2A and 2B. In a first step 100, camera and lights are put in their proper standard position as described above, relative to the horizontal surface S, on which the fabric 1 is to be draped. In a second step 102, drape the fabric sample 1 is draped in the standard two-ply drape as described above. In a third step 104, the gray-card described above is placed in the same place on the surface S next to the fabric 1. In a fourth step 106, the photo is taken of the folded fabric 1. In a fifth step 108, the color of the photo is standardized in a conventional manner, using the gray card. In a sixth step 110, the photo is stored in the desired format and preferably any tags with desired information are affixed to the photo.

Figures 4A and 4B are photos showing a straight or flat (i.e., not folded) sample of a fabric with a full-repeat of its pattern. The fabric in Figure 4B is shown on a gray background and has a serrated edge, both of which features preferably are computer generated. The photos provide readily understandable information on the size of the pattern relative to the standard size of the serrations.

These photos are made by hanging the fabric downwardly from one edge. If the fabric has a repeating pattern, the size of one pattern repeat is measured, and the repeat direction (horizontal, vertical, angle) and its size are determined and recorded. A photo is taken of a portion of the fabric, showing the pattern and optionally some repeats. For example, if a pattern has a repeat of up to 9 x 9 cm, a 25 x 25 cm portion of the fabric is photographed. (This is called a small-repeat.) If a pattern has a repeat of between 9x9 cm and 55 x 55 cm, a 70 x 70 cm portion of the fabric is photographed. (This is called a medium-repeat.) If a pattern has a repeat of bigger than 55 x 55 cm, a 80 x 80 cm portion of the fabric is photographed. (This is called a big repeat.)

These photograph sizes can, however, be varied for convenience in photographing many fabrics.

When making these photos, a standard gray-card is positioned next to the fabric in the same spot for every photo. If a one-color fabric is used, then a ruler or similar measuring instrument is also positioned next to the fabric to give an idea of its size.

The steps and equipment used in making these photos are generally the same as were described above for Figures 2A and 2B. However, the camera is level and not angled.

Figure 5 schematically shows a general flow chart of the process, just described, which can be used for making a photo of a straight sample of a fabric with a full-repeat of its pattern as in Figures 4A and 4B. Figure 4B is preferably made in a conventional manner as a computer processed rendering of the fabric of Figure 4A with different sizes of serrations being provided for different sizes of the pattern repeat in order to give the viewer an idea of the size of the pattern.

However, these photos of draped samples and straight samples of fabrics do not give a viewer an impression of the way the fabrics would look in actual use, for example, as window coverings and/or furniture coverings. For this reason, the viewer is also preferably provided with additional computer-generated photos as shown in Figures 6-8. These additional photos are photo-realistic views made by on-demand renderings of the photos of draped

samples and/or straight samples of fabrics on 3D-digitized models of window coverings or furniture coverings.

The photos of fabrics used as window coverings (Figure 6) and/or furniture coverings (Figures 7 and 8) can be made in generally conventional ways, using conventional software and computer hardware and stored fabric photos and 3-dimesnional (i.e., 3D) digitized models in the computer database. In this regard, a computer system can executes a search in a digital library containing identification photographs of fabric samples. After selecting several fabrics, the user can ask for photo-realistic views of a window covering, covered furniture, or view of both. The views can be rendered on-line by computer (e.g., via the internet), provided the identification photographs of the fabric samples are stored in a database, from which the computer can generate photo representations of the fabric in use as a window covering and/or a furniture covering.

Figures 6-8 each show computer generated photo-realistic representations of fabrics in use as a window covering or furniture covering in accordance with this invention. Each representation comprises a computer 3D model of the window covering or furniture, on which a fabric from a photo in a database has been applied by a process as described below. The representations can each be viewed as a computer-generated image on the screen of a conventional computer monitor.

The photo-realistic representations can be made by initially making a digital 3D model collection, using computer models showing the desired actual uses of fabrics as window coverings and furniture coverings. The digital 3D models can be processed from photographed model window coverings and covered furniture, using conventional graphics software. Each model can show the same view of a standard window with a standard window covering or a standard piece of covered furniture in a standard setting (e.g., a curtain for a window or a couch or a chair in room). Several different basic fabrics can be used for the models, but none should be painted or patterned. This is because the models are used only to establish basic views of window and furniture coverings, using certain different types of fabrics (e.g., heavy, light, bright, dark, easy plyable or not, translucent or not, etc.) for comparison with actual fabrics, to be used later on the models. For example, different 3D

models of a single standard window covering can be made by using fabrics of different intensities of brightness. To add to the number of 3D models, each fabric of a certain intensity of brightness on a 3D model can be shown in different translucencies (i.e., each basic fabric can be shown with 20 different intensities of brightness on a 3D model, and for each intensity of brightness of the fabric on a model, the model can be shown in 10 different translucencies, so as to generate 200 different 3D window covering models). The same can be done for dark (non-painted) fabrics which are often heavier fabrics and have different translucencies.

Along similar lines, only excluding translucency, 3D furniture models can be created and stored in a database. Each 3D model can have three basic characteristics model. The first can be the model's use, preferably as a window or furniture covering, which can be represented as either W or R. The second can be whether the model is bright or dark which can be represented with B or D, together with a figure indicating the order of brightness or darkness (e.g., B1 or B9, D2 or D4). The third can be the model's translucency which can be represented with a T, together with a figure indicating the level of translucency ( e.g. T1, T0, T10 etc). A dark model can, for example, be classified as WFD5T0, indicating that the model can be used as a window covering and as a furniture covering, is dark at a scale 5, and is not translucent.

Theoretically, each possible fabric can then be viewed on 400 different models. However, it is considered preferable to select the model best suited to display each fabric on. This can be done by also classifying each fabric swatch in the categories of use, bright/dark and translucency. The first characteristic can be the fabric's suitability of use for window and/or furniture coverings, which can be represented as W or R. The second characteristic can be whether the fabric is bright or dark which can be represented with B or D together with a figure indicating the order of brightness or darkness of the fabric (e.g., B1 or B9, D2 or D4). The third characteristic can be the fabric's translucency, which can be represented with a T, together with a figure indicating the level of translucency ( e.g. T1, T0, T10 etc.) A dark fabric can, for example, be classified as WFD5T0, indicating that the fabric can be used as window covering and as furniture covering, is dark at a scale 5, and is not

translucent. The appropriate 3D models can, therefore, be models classified as WFD5T0, WD5T0 and FD5T0.

Other classification indicia can be added to the system, such as indicia of the type of weave or basic material (cotton, nylon etc.) of the fabric.

- 5 However this would not result in better representations, unless additional 3D models are created, showing these characteristics. In this regard, the possibilities of other indicia are virtual endless but are not preferred because they would result in the need for an enormous number of additional 3D models without greatly improving the end-result of the on-line generated  
10 photo-realistic representations of fabrics, in use.

- Preferably, the fabric photographs stored in the database are photos or other images of draped fabric samples as described above with respect to Figures 1 and 2 and/or of straight fabric samples as described above with respect to Figure 4, and each photo is tagged to indicate the eventual uses of  
15 its fabric. Thereby, conventional software can then be used to have a computer automatically generate an appropriate photo-realistic representation of each fabric in use, for example, as a window covering if the fabric is tagged for use as a window covering and the viewer requests a view of a window covering (e.g., by clicking an appropriate icon or selection screen on an on-  
20 line computer interfacing with the internet). Additional tagged information for each of the photos of draped or straight fabrics can indicate the fabric's relative brightness and/or translucency. Thereby, conventional software can be used to have a computer automatically generate a photo-realistic representation of each fabric in use as an appropriately bright and/or  
25 translucent window covering. If a viewer requests a furniture covering, the computer will generate a furniture view if the fabric has been tagged for such use.

- Besides generating single view, photo-realistic representations of fabrics, a computer can also create multi-view representations of fabrics in  
30 accordance with this invention. See Figure 9. Such multi-view representations preferably each comprise 2 or more, preferably 3 or 6, especially 4, photos or images of a single fabric. One photo thereof is preferably of a draped folded fabric sample 1 as in Figures 1 and 2, and another photo thereof is of a straight fabric sample as in Figure 4. With these two basic views is provided

one or more, additional computer-generated photo-realistic representations of the fabric in use. If the fabric can be used as a window covering and also as a furniture covering, the additional representations will include one or more computer-generated photos showing the fabric as a window-covering and one  
5 or more computer-generated photos showing the fabric as a furniture covering. See Figure 9B. If the fabric can be used only as a window covering, the additional representations will only include one or more computer-generated photos showing the fabric in use as a window covering. See Figure 9A. If the fabric can only be used as a furniture covering, the additional  
10 representations will only include one or more computer-generated photos showing the fabric in use as a furniture covering. See Figure 9C.

In accordance with this invention, such additional representations of the fabric in use are preferably not stored, as such, in a database, such as the data base of an internet web site. Rather, these additional representations  
15 are created and displayed on an internet web site only when a potential customer of the fabric demands, on-line, views of the fabric.

This invention is intended to provide a plurality of standardized photographs or equivalent images of individual fabrics in the data base of a system, such as an internet web site for selling the fabrics, so that potential  
20 purchasers of the fabrics can accurately and reliably compare the fabrics from their photographs. In order to accomplish this, the only variable in each photo should be the fabric itself, not how it is photographed or represented. However, such standardized photographic representations of individual fabrics is often not sufficient for the purposes of fabric purchasers. For this  
25 reason, the standardized photographs of this invention are also adapted to allow a potential purchaser of the fabrics to discern accurately and reliably from the photos, certain characteristics of the fabrics, particularly their texture, pattern thickness, drape and translucency.

In this regard, the view of a draped double-folded fabric as in Figures 2  
30 and 9 gives a lot more information than does a flat view as in Figure 4, particularly as to the fabric's texture, drapability and translucency. Indeed, this draped view is like a 3-dimensional representation of the fabric because it conveys an idea of how the fabric feels when touched. Additional specific

information about the fabric's pattern and repeat of a pattern is preferably provided by the additional view of a straight fabric sample as in Figure 4.

Furthermore, since images of a small sample make it difficult to visualize how a fabric would actually appear in use as a window covering or furniture

5 covering, one or more additional computer-generated photo-realistic views are preferably provided, computer showing the fabric as a furniture covering and/or window covering as in Figures 6-9. Such views are particularly useful where the purchaser wishes to find a fabric of one design and color for different uses, such as both a window covering and a furniture coverings, to  
10 create a color-coordinated interior.

The photos or views, made by this invention, can be printed on paper and arranged in a conventional catalogue, advertising circular or the like. The photos can also be displayed on a conventional computer monitor and stored in a conventional digital library. In this regard, the method of this invention can  
15 be carried out with conventional computer hardware and software and, if desired, via the worldwide internet.

This invention is, of course, not limited to the above-described embodiments which can be modified without departing from the scope of the invention or sacrificing all of its advantages. In this regard, the terms in the  
20 foregoing description and the following claims, such as "top", "bottom", "vertical", "horizontal", "left" and "right", have been used only as relative terms to describe the relationships of the various elements of the photograph and the method of making the photograph of this invention. For example, each draped fabric sample 1, that is photographed, need only have at least one  
25 fold, but preferably has 1-3 folds, especially 2 folds. Also, the fabric, being photographed could be a woven, knit or non-woven fabric. Furthermore, the photo of each fabric could be made using a silver halide or other chemical based film but is preferably made electronically (i.e., is a digital image).

Moreover, each fabric can be shown in computer-generated images for uses  
30 other than as window and/ or furniture coverings, such as bed linen, table cloths, towels, etc.